

RackChiller Rear Door Cooler, Passive

Data Solutions



RackChiller Rear Door Cooler (RDC) Water Heat Exchanger is designed for managing high heat load cooling requirements within high-density server, computing and storage racks. The RDC installs on equipment racks as a separate rear door with an extra frame, enabling it to be retrofitted to existing racks. Heat dissipated by the rack equipment will be removed by a air-to-liquid heat exchanger and transferred into the facility water circuit, adding no heat to the IT room. The entire system is integrated within an aesthetically framed perforated door with protective covers to isolate the liquid source and cooling loop from the rack-mounted equipment.

CERTIFICATIONS



FEATURES

Fanless solution, no noise, no additional power consumption, low maintenance

Frame solution separates coil and condensate management from the rack-mounted equipment

Rear space inside the cabinet is completely available for power distribution and cable management

Easily adapts to nVent cabinets; contact nVent to request information for integrating with third party cabinet

Temperature sensors on air supply and return side

Optional control system with Modbus TCP and SNMP v2c interface

Optional water flow, pressure and temperature sensors included with the water control package allow for water monitoring and regulation according to actual heat load

Optional local display

SPECIFICATIONS

Table 1/2

| Catalog Number | Product Type | Product Family | Type | Width | Depth | Height |
|----------------|---------------------------|----------------|---------------------------|-------|-------|--------|
| 21130-800 | Air/Liquid Heat Exchanger | RackChiller | Rear Door Cooler, Passive | 600mm | 226mm | 2000mm |
| 21130-801 | Air/Liquid Heat Exchanger | RackChiller | Rear Door Cooler, Passive | 800mm | 226mm | 2000mm |
| 21130-802 | Air/Liquid Heat Exchanger | RackChiller | Rear Door Cooler, Passive | 600mm | 226mm | 2200mm |
| 21130-803 | Air/Liquid Heat Exchanger | RackChiller | Rear Door Cooler, Passive | 800mm | 226mm | 2200mm |
| 21130-804 | Air/Liquid Heat Exchanger | RackChiller | Rear Door Cooler, Passive | 600mm | 226mm | 2450mm |
| 21130-805 | Air/Liquid Heat Exchanger | RackChiller | Rear Door Cooler, Passive | 800mm | 226mm | 2450mm |

Table 2/2

| Catalog Number | Finish | Material | Package Quantity |
|----------------|---------------|----------|------------------|
| 21130-800 | Powder Coated | Steel | 1 |
| 21130-801 | Powder Coated | Steel | 1 |
| 21130-802 | Powder Coated | Steel | 1 |
| 21130-803 | Powder Coated | Steel | 1 |
| 21130-804 | Powder Coated | Steel | 1 |
| 21130-805 | Powder Coated | Steel | 1 |

ADDITIONAL PRODUCT DETAILS

For trouble-free operation it is recommended to use the water connection set and the optional accessories.

The cooling capacity is determined under the following conditions: delta p water: < 100 kPa; delta p air: 15 Pa; water flow temperature: 12 °C / 53.6 °F; outlet temperature 24 °C / 75.2 °F; water flow: 4.8 m³/h / 21.1 gal/min; Airflow: Depending on cooling module see Diagram Performance Map.

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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